

In the Claims:

Claims 1-54 (Cancelled)

55. (Currently Amended) An isolated polypeptide comprising a member selected from the group consisting of

- (a) ~~an amino acid sequence matching SEQ ID NO:2 or SEQ ID NO:4; and~~
- (b) ~~an immunogenic polypeptide comprising a fragment sequence of at least 15 amino acids that matches an aligned contiguous segment of SEQ ID NO:2 or SEQ ID NO:4;~~

wherein the isolated polypeptide, when administered to a subject in a suitable composition which can include an adjuvant, or a suitable carrier coupled to the polypeptide, induces an antibody or T-cell immune response to a polypeptide consisting having the sequence of SEQ ID NO:2 or SEQ ID NO:4;

56. (Previously added): The isolated polypeptide of claim 55, wherein the polypeptide is according to (a).

57. (Previously added): The isolated polypeptide of claim 55, wherein the polypeptide is according to (b).

58. (Previously added): The isolated polypeptide of claim 55, wherein the immunogenic fragment of (b) comprises at least 20 amino acids.

59. (Currently amended): The isolated polypeptide of claim 55, wherein the isolated polypeptide consists of SEQ ID NO:2 or SEQ ID NO:4.

60. (Cancelled)

61. (Previously added): An immunogenic composition comprising the polypeptide of Claim 55 and a pharmaceutically acceptable carrier.

62. (Cancelled)

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63. (New): The immunogenic composition of claim 61, further comprising an adjuvant.

64. (New): The immunogenic composition of claim 63, wherein the adjuvant comprises a TH-1 type adjuvant.

65. (New): The immunogenic composition of claim 64, wherein the TH-1 type adjuvant is selected from the group consisting of 3D-MPL and QS21.

66. (New): The immunogenic composition of claim 61, wherein the carrier comprises an oil-in-water emulsion.

67. (New): The immunogenic composition of claim 61, wherein the carrier comprises an aluminum salt.

68. (New): A fusion protein comprising the isolated polypeptide of claim 55 and a polypeptide selected to:

- (a) provide T-helper epitopes;
- (b) facilitate purification from a recombinant expression system; or
- (c) stabilize the isolated polypeptide during recombinant expression.

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